

Sequence listing

<110> President of Nagoya University

<120> Peroxisomal ascorbate peroxidase gene induced by high temperature stress and a transgeneic plant exhibiting thermotolerance

<160> 2

<210> 1

<211> 291

<212> Amino acid

<213> *Hordeum vulgare* L. Haruna-nijyo

<400> 1

MAAPVVDAEY LRQVDRARRA FRALIASKGC APIMLRLAWH DAGTYDVNTR TGGANGSIRY 60  
EEEYTHGSNA GLKIAIDLLE PIKAKHPKIT YADLHQLAGV VAVEVTGGPT VEFIPGRRDS 120  
SVCPREGRLP DAKKGAPHLR DIFYRMGLTD KDIVALSGGH SLGKAHPERS GFDGAWTRDP 180  
LKFDNSYFLE LLKGESEGLL KLPTDKALLD DPEFRRYVEL YAKDEDVFFK DYAESHKKLS 240  
ELGFTPRSSG PASTKSDVST AVVLAQSAVG VAVAAAVVIA GYL YEASKRS K 291

Patent No. 2000-172,850

<210> 2

<211> 1089

<212> Nucleic acid

<213> *Hordeum vulgare* L. Haruna-nijyo

<400> 2

CTTCTAGGGT CGTCCGCGAT GGC GGCTCCG GTGGTGGACG CCGAGTACCT GCGCCAGGTC 60  
GACAGGGCGC GCCGCGCCTT CCGTGCCCTC ATCGCCTCCA AGGGATGCGC CCCCATCATG 120  
CTCCGCTCG CATGGCATGA TGCTGGCACC TATGATGTGA ACACAAGAAC TGGTGGTGCA 180  
AATGGTTCAA TTAGATACGA GGAAGAGTAC ACCCATGGTT CAAATGCTGG CTAAAAAATT 240  
GCTATTGATC TCCTTGAGCC TATTAAAGCG AAGCATCCAA AGATTACATA TGCAGACCTT 300  
CATCAGCTTG CCGGAGTAGT TGCAGTTGAA GTCACCGGGG GTCCAACCGT TGAGTTCATC 360  
CCTGGAAGAC GTGATTCGTC AGTTTGTCCC CGTGAAGGAC GCCTTCCTGA TGCTAAGAAA 420  
GGTGCACCAC ATCTAAGGGA CATCTTTTAT CGAATGGGGT TAACAGACAA AGATATTGTA 480  
GCACTATCTG GGGGGCACAG CCTGGGAAAG GCGCATCCTG AAAGGTCTGG GTTTGACGGT 540  
GCATGGACTC GTGACCCTCT GAAATTTGAC AACTCATACT TTCTTGAGCT ACTGAAGGGG 600  
GAATCTGAGG GTCTTCTGAA GCTCCCTACT GATAAGGCAT TGTGGATGA TCCTGAATTT 660  
CGACGCTATG TGGAGCTTTA TGCAAAGGAT GAGGATGTTT TCTTCAAGGA CTACGCTGAA 720  
TCACACAAAA AACTTTCTGA ACTTGGCTTC ACACCACGGA GCAGTGGCCC AGCATCTACA 780  
AAATCAGATG TTTCAACTGC TGTTGTACTT GCACAGAGTG CAGTCGGGGT AGCAGTTGCT 840  
GCAGCTGTAG TTATCGCGGG CTACCTGTAC GAAGCTTCCA AGAGGAGCAA GTAAGGGGTT 900  
CGTGAGTTCT TGGATGACAT TCCCTTATTT AGTAAGTATC AAGTTATTAT TCTAAAAAAA 960  
TAAGTGCCAA GTGCAAATAA CAGAACTCTA GTGATGAACA ACCAACAGTA GTCTCAAAT 1020  
ATTCATACA TTCTTGAGGA CATCTCCTTC ATATATATAC ATCATACTTG AATAAAAAAA 1080  
AAAAAAAAA 1089

00033 (2000-172,850)